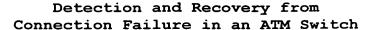
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5 ABSTRACT OF THE DISCLOSURE

An ATM switch includes a memory and a control The control circuit maintains in the memory a connection table which includes a multicast master entry and one or more multicast member entries associated with the multicast master entry. multicast master entry includes a limit field and a The limit field is set to a predefined count field. value and the count field is initialized to a predefined initial value. The limit field and said count field are compared to determine an active status each one of the multicast member entries. embodiment, the control circuit increments the count field whenever an ATM cell is received and decrements the count field whenever an ATM cell is transmitted. When the count field is equal to or greater than the limit field, a connection failure is declared for the multicast member entry currently being transmitted and the member entry is set to an inactive status. member entry can be removed from the connection table.